

Safety Data Sheet

Edition: 2019-4-08 / Version 18

1. IDENTIFICATION

Nickel Metal Hydride Batteries

all sizes

VARTA Consumer Batteries
GmbH & Co. KGaA

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2. HAZARDS IDENTIFICATION

Note: The batteries described in this Safety Data Sheet are sealed and are not harmful, as long as they are used in compliance with the manufacturer instructions. The content of the battery housing does not create a hazard, as long as the integrity of the battery housing is not affected by abuse (mechanical, thermal, electrical). Fire, explosion and severe, burn hazard in such abuse conditions may occur.

Warning: Do not short circuit, puncture, deform, disassemble, heat above 85 °C or incinerate. Keep batteries away from small children. International Standard IEC 62133 contains more detailed information on safety of nickel metal hydride batteries.

GHS Classification: N/A

3. COMPOSITION / INFORMATION on INGREDIENTS

Stoffbezeichnung	CAS Nummer	Konzentration in Gewichtsprozent
Nickel	7440-02-0	32 - 58
Nickel Hydroxide	12054-48-7	
Nickel Oxide	1313-99-1	
Steel	7439-89-6	16 – 30
Potassium Hydroxide	1310-58-3	2 – 6
Sodium Hydroxide	1310-73-2	
Lithium Hydroxide	1310-65-2	
Cobalt	7440-48-4	2,5 – 5
Cobalt Hydroxid	21041-93-0	
Cobalt Oxide	1307-96-6	
Zinc	7440-66-6	0 - 3
Zinc Hydroxide	20427-58-1	
Zinc Oxide	1314-13-2	
Manganese	7439-96-5	0,3 – 1,5
Aluminium	7429-90-5	0 – 2
Lanthanum (7439-91-0), Cerium (7440-45-1), Neodymium (7440-00-8), Polypropylene (9003-07-0), Polyethylene (9002-88-4), Water (7732-18-5)		Balance

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4. FIRST AID MEASURES

Contact to internal Battery content:

- ▶ **Skin:** Immediately flush with plenty of water for at least 15 minutes. If symptoms are present after flushing, get medical attention.

 - ▶ **Eyes:** Immediately flush with plenty of water for at least 15 minutes and get medical attention.

 - ▶ **Respiratory system:** Leave area immediately. With large quantities and irritation of the respiratory tract get medical attention.

 - ▶ **Ingestion:** Rinse mouth and surrounding area with water. Seek for immediate medical attention.
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5. FIRE – FIGHTING MEASURES

A. Extinguishing Media:

- ▶ Copious amounts of water or foam is an effective extinguishing medium for nickel metal hydride batteries.

- ▶ Dry chemical type extinguishers may also be used.

B. Fire Fighting Procedures:

- ▶ Use a positive pressure self-contained breathing apparatus if batteries are involved in a fire.
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6. ACCIDENTAL RELEASE MEASURES

When the battery housing is damaged, small amounts of electrolyte may leak. Seal battery air tight in a plastic bag, adding some dry sand, chalk (CaCO₃) or lime (CaO) powder or Vermiculite. Electrolyte traces may be wiped off dryly

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using household paper. Rinse with water afterwards.

7. HANDLING AND STORAGE

- ▶ Do not allow terminals to short-circuit.
 - ▶ Storage preferably in a cool (below 30 °C), dry area that is subject to little temperature change.
 - ▶ Do not place near heating equipment, nor expose to direct sunlight for long periods. Elevated temperatures can result in reduced battery service life.
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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory equipment: None required under normal use conditions.
Hand protection: None required under normal use conditions. Use butyl gloves when handling leaking batteries.
Eye protection: None required under normal use conditions. Wear safety glasses when handling leaking batteries.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Geometric solid objects.

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10. STABILITY AND REACTIVITY

May rupture violently when heated above 100 °C or when charged.

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11. TOXICOLOGICAL INFORMATION

Not applicable.

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12. ECOLOGICAL INFORMATION

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Not applicable.

13. DISPOSAL CONSIDERATIONS

- ▶ Nickel metal hydride batteries do not contain hazardous materials according to EC directives 2006/66/EC.
 - ▶ In accordance with appropriate national regulations (2006/66/EC).
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14. TRANSPORT INFORMATION

Nickel-Metal-Hydride batteries, we supply to our customers are subject to the regulations on dangerous goods. Transport may be facilitated by observing the following special provisions.

Air transport: IATA Dangerous Goods Regulations 60th Edition special provision A199
The shipping documents contain "Not restricted, as per Special Provision A199" in the air Waybill (8.2.6 IATA-DGR)

Sea transport (UN 3496): IMDG Code 39. Amendment special provision 117 / 963

Road and rail transport: ADR/RID 2019

All of these batteries are carefully packed and provide appropriate protection for prevention of short circuits

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15. REGULATORY INFORMATION

Not applicable.

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16. OTHER INFORMATION

For nickel metal hydride batteries in general, Safety standard IEC 62133 applies. It contains detailed recommendations for manufactures of equipment and users.

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